

544274

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
19 August 2004 (19.08.2004)

PCT

(10) International Publication Number  
**WO 2004/069852 A1**

(51) International Patent Classification<sup>7</sup>: **C07H 17/08,**  
A61K 31/70, A61P 33/00

(21) International Application Number:  
PCT/EP2004/000972

(22) International Filing Date: 3 February 2004 (03.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0302548.3 4 February 2003 (04.02.2003) GB

(71) Applicant (for all designated States except US): **SYNGENTA PARTICIPATIONS AG** [CH/CH]; Schwarzwaldallee 215, CH-4058 Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CASSAYRE, Jérôme** [FR/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **TOBLER, Hans** [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **PITTERNA, Thomas** [AT/CH]; Syngenta Crop. Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **MAIENFISCH, Peter** [CH/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH).

**MURPHY KESSABI, Fiona** [IE/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **QUARANTA, Laura** [IT/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH). **HUETER, Ottmar, Franz** [DE/CH]; Syngenta Crop Protection AG, Schwarzwaldallee 215, CH-4058 Basel (CH).

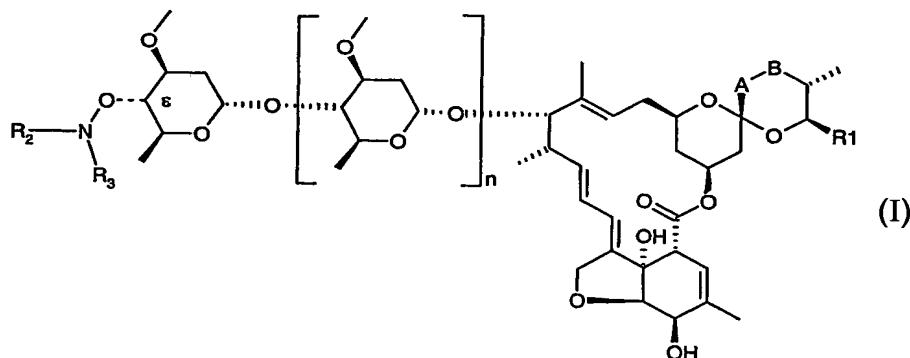
(74) Common Representative: **SYNGENTA PARTICIPATIONS AG**; P.O. Box, CH-4002 Basel (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: AVERMECTINS SUBSTITUTED IN THE 4'' AND 4'-POSITIONS HAVING PESTICIDAL PROPERTIES



(57) Abstract: What is described are a compound of the formula (I) Wherein A-B is -CH=CH- or -CH<sub>2</sub>-CH<sub>2</sub>-; n is 0 or 1; R<sub>1</sub>, is C<sub>1</sub>-C<sub>12</sub>alkyl, C<sub>3</sub>-C<sub>8</sub>cycloalkyl or C<sub>2</sub>-C<sub>12</sub>alkenyl; R<sub>2</sub> and R<sub>3</sub> for instance are either, (i) independently from each other for instance -Q, -C(=Y)-Q, or -C(=Y)-O-Q; or (ii) together form with the nitrogen atom to which they are bound a three- to seven-membered ring, (iii) together are =C(R<sub>4</sub>)R<sub>5</sub>; R<sub>4</sub> and R<sub>5</sub> are, independently from each other, for instance -Q, -C(=Y)-Q, or -C(=Y)-O-Q; Y is O or S; Q is for instance H or unsubstituted or mono- to pentasubstituted C<sub>1</sub>-C<sub>12</sub>alkyl; or, if appropriate, an E/Z isomer, E/Z isomer mixture and/or tautomer thereof; a process for preparing these compounds, their isomers and tautomers and the use of these compounds, their isomers and tautomers; pesticidal compositions whose active compound is selected from these compounds and their tautomers; intermediates for the preparation of the said compounds of the formula (I), methods for the preparation of the compounds of the formula (I), and a method for controlling pests using these compositions.

WO 2004/069852 A1



**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*